

Abstract

A back light unit in a liquid crystal display is disclosed. In the back light unit, a light-guide plate is provided with a cone pattern to uniformly guide a light passing through a light input. A light-path converter controls a progress direction of the light in such a manner that the light outputted from the light-guide plate is progressed in a direction perpendicular to a liquid crystal panel. A diffusion sheet diffuses the light passing through the light-path converter into the liquid crystal panel. Accordingly, a reflection of the light-guide pattern and wall surface as well as the bright lines of the light input can be minimized. In addition, the light efficiency can be improved and the manufacturing cost can be reduced.